Pierre Mackenzie

Legal Name: *Pierre Lardet* (he/him)

4th year Maths and Computer Science student. Seeking opportunities to work with intelligent and collaborative people where I can learn the most about how to do good research.

EDUCATION

BSc Computer Science & Mathematics
University of Edinburgh
Edinburgh, UK
2021 – 2025

- **90% average** to date, 1st class honours expected
- Currently enrolled on ML & Pattern Recognition, ML Theory, Time Series, Statistical Methodology, Algorithmic Game Theory, Reinforcement Learning, Stochastic Modelling
- Past courses include: Algorithms & Data Structures, Foundations of Data Science, Object Oriented Programming, Probability, Linear Algebra, Calculus, Pure Mathematics, Musical Acoustics

Academic Exchange Year
EPFL
Lausanne, Switzerland
2023 – 2024

- Final grade: **5.7 / 6**
- Ranked 1st for courses with ML research projects in **Learning in Biomedicine (6/6)** and **Computational Photography (5.75/6)**
- Courses include: Modern NLP (6/6), Applied Data Analysis (6/6), Graph Theory (5.5/6), Advanced Probability (5.25/6), Algebra (5.75/6), Musical Theory (6/6)

High School
Linlithgow Academy
Scotland, UK
2015 – 2021

- Advanced Highers: Maths, CS, Physics, Chemistry, Music (all > 85%)
- Head Boy, Dux Award for top academic performance
- Winner of West Lothian Stellar Award for academic achievement

EXPERIENCE

Research Assistant
University of Edinburgh
Edinburgh, UK
Oct 2024 – Present

- Benchmarking generative tabular data models with **Dr. Fengxiang He**
- Collaboration with Smart Data Foundry for data/algorithm integration.

Quantitative Researcher Intern
Optiver
Amsterdam, Netherlands
Jul 2024 – Sep 2024

- Researched closing auction trading strategies in European stocks.
- Simulated trading of Eurostoxx and S&P options.
- Attended lectures and examined on future pricing and options theory.
- Received return offer for full-time quant research role in Amsterdam.

Machine Learning & Data Science Intern
Adarga
London, UK
Jun 2023 – Sep 2023

- Conducted 12 weeks of research on topic segmentation with LLMs.
- Developed datasets, evaluation metrics and benchmarking pipelines, and fine-tuned open-source models.
- Drafted a paper for submission to ACL 2025.
- Received return offer for repeat internship.

LINKS

Email: **lardet.pierre@gmail.com**
Github: **PierreRL**
LinkedIn: **pierremackenzie**
Website: **pierre.wiki**
Phone: **+44 7914 728122**

PROJECTS

ML Workshops
EdinburghAI

Lectured and designed workshops **workshops** for 50-100 students per session with **EdinburghAI**. Topics included neural networks, computer vision and language processing.

ML Music Transcription
Dissertation

Researching ML models for transcribing audio into lead sheets with **Prof. Amos Storkey**. Focusing on frame-wise chord/melody recognition.

SKILLS

Programming
Python • PyTorch • Pandas • Scikit-learn • Dart/Flutter • TypeScript/JS • Git/GitHub • Web Development

Languages
English (native) • French (native) • Spanish (A2)

Hobbies
Music: I am a self-taught pianist and classically trained guitarist. I have composed solo piano pieces and various arrangements.
Sports: I have been on the Scottish national orienteering team, and regional tennis and badminton teams. I am currently a coach for Edinburgh Ultimate Frisbee.